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DATE: March 21, 2012

TO: Kelley Chase, EPA Region 3 OSC
Cynthia Caporale, EPA Region 3 OASQA

THROUGH: [REDACTED] SERAS Program Manager

FROM: [REDACTED] SERAS QA/QC Officer

SUBJECT: VERIFICATION/COMPLETENESS CHECK – DIMOCK, PA LABORATORY DATA
[File 12041b_rsk 175.pdf](#), [File 12041b_tph_purgeable.pdf](#), [File 12041b_tph_extractable.pdf](#)
[File 12044a_rsk 175.pdf](#), [File 12044a_tph_purgeable.pdf](#), [File 12044a_tph_extractable.pdf](#)
[File 12046b_rsk 175.pdf](#), [File 12046b_tph_purgeable.pdf](#), [File 12046b_tph_extractable.pdf](#)
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INTRODUCTION

On March 20, 2012, a review of the case narratives and corresponding certificates of analysis from the EPA R9 (Dissolved Gases, GRO, DRO/ORO Reports Posted Mar 19) was conducted at the SERAS facility in accordance with the Follow-Up Verification/Completeness Check agreed upon during our teleconference on Wednesday 2/8/12.

The assumptions for this review include the following: 1) Case narratives from the Regional labs and/or subcontract labs have been reviewed in accordance with Regional or Environmental Services Assessment Team (ESAT) protocols and contain all pertinent and complete information to conduct the completeness check. SERAS will base this review on the information provided by the laboratory and not on an actual data package; and 2) SERAS will relay any “red” flags to the EPA R3 personnel to resolve and determine data usability.

OBSERVATIONS

In accordance with Table 1 – Field and QC Sampling Summary (Rev01 - 2/3/12), Table 2 – Sample Analytical Requirements Summary (Rev01 – 2/3/12), Methods for Groundwater and Surface Water Samples and the R9 SOPs for dissolved gases (SOP 325), Gasoline Range Organics (SOP380) and Diesel Range Organics (SOP 385), the following observations were noted and need to be clarified/resolved.

File 12041b_rsk 175.pdf

1. For dissolved gases, the following qualifications should be entered in the results qualifier column in Scribe: Methane “U” at a RL of 1.2 for samples HW48, HW48z, TB31, TB32, TB33 and TB34 since the results for methane are less than the RL (B1, C1 and J flags should not be carried over). For samples HW23 and HW23-P, the B1 and J qualifiers do not get carried over into the results qualifier column.
2. It is assumed that all instrument QC (RSD, %D, retention time windows, LCV, SCV, etc) were performed and within the acceptance criteria listed in the SOP or the outliers had no impact on the data.

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1. It is assumed that all instrument QC (RSD, %D, retention time windows, LCV, SCV, etc) were performed and within the acceptance criteria listed in the SOP or the outliers had no impact on the data. No additional qualifications are required.

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1. It is assumed that all instrument QC (RSD, %D, retention time windows, LCV, SCV, etc) were performed and within the acceptance criteria listed in the SOP or the outliers had no impact on the data. No additional qualifications are required.

File 12044a_rsk 175.pdf

1. For dissolved gases, the following qualifications should be entered in the results qualifier column in Scribe: Methane "U" at a RL of 1.2 for sample HW44 since the result for methane is less than the RL (C1 and J flags should not be carried over).
2. It is assumed that all instrument QC (RSD, %D, retention time windows, LCV, SCV, etc) were performed and within the acceptance criteria listed in the SOP or the outliers had no impact on the data. No additional qualifications are required.

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1. The RPD criterion exceeded the $\pm 11\%$ criterion for samples HW44 (lab #1202034-05) and HW36n-P (lab #1202034-09). Since the TPH as gasoline results are less than the reporting limit, no qualification of the data are required. The J and Q6 flags should not be carried over into the result qualifier column in Scribe (only the "U" qualifier).
2. It is assumed that all instrument QC (RSD, %D, retention time windows, LCV, SCV, etc) were performed and within the acceptance criteria listed in the SOP or the outliers had no impact on the data. No additional qualifications are required.

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1. It is assumed that all instrument QC (RSD, %D, retention time windows, LCV, SCV, etc) were performed and within the acceptance criteria listed in the SOP or the outliers had no impact on the data. No additional qualifications are required.

File 12046b_rsk 175.pdf

1. For dissolved gases, the following qualifications should be entered in the results qualifier column in Scribe: Methane "U" at a RL of 1.2 for samples TB42, TB41, HW57, TB45 and TB47 and ethane "U" at 1.2 for samples HW11-P, HW55 and HW58 since the results are less than the RL (B1, C1 and J flags should not be carried over). For samples HW57-P, HW27 and HW27z, the B1 and J qualifiers do not get carried over into the results qualifier column.
2. It is assumed that all instrument QC (RSD, %D, retention time windows, LCV, SCV, etc) were performed and within the acceptance criteria listed in the SOP or the outliers had no impact on the data. No additional qualifications are required.

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1. The RPD criterion exceeded the $\pm 11\%$ criterion for sample HW55 (lab #1202038-18). Since the TPH as gasoline results are less than the reporting limit, no qualification of the data are required. The J and Q6 flags should not be carried over into the result qualifier column in Scribe (only the "U" qualifier).
2. It is assumed that all instrument QC (RSD, %D, retention time windows, LCV, SCV, etc) were performed and within the acceptance criteria listed in the SOP or the outliers had no impact on the data. No additional qualifications are required.

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1. It is assumed that all instrument QC (RSD, %D, retention time windows, LCV, SCV, etc) were performed and within the acceptance criteria listed in the SOP or the outliers had no impact on the data. No additional qualifications are required.

File 12047a_rsk 175.pdf

1. For dissolved gases, the following qualifications should be entered in the results qualifier column in Scribe:

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Methane "U" at a RL of 1.2 for samples FB18 and TB48 since the results for methane are less than the RL (C1 and J flags should not be carried over).

2. It is assumed that all instrument QC (RSD, %D, retention time windows, LCV, SCV, etc) were performed and within the acceptance criteria listed in the SOP or the outliers had no impact on the data. No additional qualifications are required.

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1. It is assumed that all instrument QC (RSD, %D, retention time windows, LCV, SCV, etc) were performed and within the acceptance criteria listed in the SOP or the outliers had no impact on the data. No additional qualifications are required.

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1. It is assumed that all instrument QC (RSD, %D, retention time windows, LCV, SCV, etc) were performed and within the acceptance criteria listed in the SOP or the outliers had no impact on the data. No additional qualifications are required.

cc: [REDACTED], SERAS Project Officer
[REDACTED] RT WAM
[REDACTED] ERT WAM
[REDACTED], SERAS Task Leader